GRADE 3-4 QUESTIONS AND SOLUTIONS

Q1:

According to the question above, what is A + B + C = ? (1 points)

- A) 7
- B) 9
- C) 10
- D) 11

Q2: 1899 + MNP =

If 🛑



then find MNP. (2 points)

- A) 943
- B) 498
- C) 894
- D) 984

ANSWER IS D

SOLUTION:

Q1:Starting from the ones digit, we need to check each addition operation.

$$4 + B + 3 = 4$$
 or $4 + B + 3 = 14$

The first option is impossible because in tens digit we had extra one ten. So, we will consider the second option.

So,
$$7 + B = 14$$
, then $B = 7$

In hundreds digit, A + 6 + 7 = 17 but we had an extra one hundred from tens digit, so

$$A + 6 + 7 + 1 = 17$$
, then $A = 3$

In thousands digit, 3 + 2 + C = 7, but we had an extra one thousand from hundreds digit

So,
$$1 + 3 + 2 + C = 7$$
, then $C = 1$

$$A = 3$$
, $B = 7$, and $C = 1$

Total =
$$3 + 7 + 1 = 11$$

ANSWER IS D SOLUTION:

Q2: To find MNP, we need to find the value of the triangle first.

1217 + 1666 = 2883, which equals



The value of the triangle equals the value of the circle which is 2883.

$$1899 + MNP = 2883$$

To find MNP, we need to use the inverse operation of addition, that is subtraction.

Q3:

6, ★, 20, ●, 34, 41, ...

According to the number pattern given above, how much more is \bullet than \star ? (3 points)

- A) 14
- B) 15
- C) 16
- D) 17

ANSWER IS A SOLUTION:

Q3: To find their value, we need to find the rule of the pattern first.

The difference between 41 and 34 is 7.

Therefore, the rule of the pattern is adding 7 for the next term.

To find their difference, we need to subtract 14 from 27.

$$27 - 13 = 14$$

Q4:



A greengrocer bought 148 crates of tomatoes to sell. Each crate contained 19 kg of tomatoes. The greengrocer wants to sell these tomatoes in 4 kg packages. How many packages does he need? (4 points)

- A) 703
- B) 73
- C) 42
- D) 402

ANSWER IS A

SOLUTION:

Q4: Calculate the total weight of the tomatoes:

Total weight = 148 crates × 19 kg/crate = 2812 kg

Calculate the number of 4 kg packages needed:

Number of packages = $2812 \text{ kg} \div 4 \text{ kg}$

= 703 packages

So, the greengrocer needs 703 packages.

GRADE 3-4 QUESTIONS AND SOLUTIONS

Q5:



- Jack is older than Lily.
- Lily is younger than Alex, but older than Melissa.
- Alex is older than Jack.

According to this, if we rank these children from oldest to youngest, who will be in 2nd place? (5 points)

- A) Jack
- B) Lily
- C) Alex
- D) Melissa

ANSWER IS A

SOLUTION:

Q5: To solve this, we need to determine the relative ages of all the children:

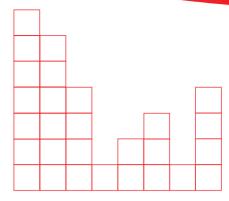
- 1. Jack (J) is older than Lily (L).
 - J > L
- **2.** Lily (L) is younger than Alex (A), but older than Melissa (M).
 - A > L > M
- 3. Alex (A) is older than Jack (J).
 - A > J

Combining all the information:

• A > J > L > M

Thus, in the order from oldest to youngest, the second oldest child is Jack (J).

Q6:



The above figure is made up of square pieces. What is the minimum number of additional square pieces needed to complete the figure into the smallest possible rectangle? (6 points)

- A) 24
- B) 28
- C) 30
- D) 32

ANSWER IS B

SOLUTION:

Q6: The length of the rectangle contains 8 squares. The width of the rectangle contains 7 squares. The formula of area of a rectangle is length x width.

A = 8 squares x 7 squares = 56 squares²

In this figure above, there are 28 squares in total.

To complete 56 squares, 28 squares are needed.

56 - 28 = 28

Q7:



Brian has \$125 more than Alexa; Simon has \$105 less than Alexa. If the three friends have a total of \$740, how much money does Brian have? (7 points)

A) 240

B) 365

C) 135

D) 260

ANSWER IS B

SOLUTION:

Q7: Let's define the variables:

- Let A be the amount of money Alexa has.
- Brian has A + 125
- Simon has A 105

The total amount of money they have is \$740. Therefore, we can set up the equation:

$$A + (A + 125) + (A - 105) = 740$$

Combine like terms:

3A + 20 = 740

Subtract 20 from both sides:

3A = 720

Divide by 3:

A = 240

Now, we can find how much money Brian has:

A + 125 = 240 + 125 = 365

So, Brian has \$365.